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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY USSR

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SUBJECT Generators Used on Soviet Merchant
 Ships

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SOURCE

1. In general the electric power plants used on ships of the Soviet Navy and Merchant Fleet are the same as those used on shore in plants, army engineer units, and even in towns where stationary power plants produce current primarily for illumination. There are two main differences. The generators on vessels are usually smaller because of the space limitations and they are better isolated because the danger of short circuits and fire is greater. As far as I know, the generators and motors which are used in the power plants on ships are the same in the Navy and the Merchant Fleet. I can give information on the following types:
- (a) Generator "Stalinets", type ZhES-50, three phase alternating current; capacity: 50 KW, 230/133V, 125/217 amp, 750 rpm, cosine 0.8. It is usually powered by a diesel motor of the "Doyts" type. It is used mainly for moveable electric power plants on naval and merchant fleet vessels and in various small repair shops.

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- (b) Generator DPS-1 (Dizel'naya Peredvizhnaya Electrostantsiya), manufactured in the Main Electric Equipment Manufacturing Plant (Masterskiye Glavelektromontaga) in Odessa. Specifications: three phase alternating current, 40 KW, 400/230 V, approximately 60/125 amp, 750 rpm, cosine 0.8. It is powered by diesel motor "Doyts" and used mainly by the army in various engineer units.
- (c) Generator type ZhES-30, three phase alternating current; capacity: 30 KW, 230 V, 75 amp, 1000 rpm, cosine 0.8. It is powered either by diesel motor "Doyts" or by a gasoline or petroleum motor. It is used in the navy and the merchant fleet as well as in the army for various engineer services.
- (d) Generator: three phase alternating current; capacity: 100 KW, 300 V, 200 amp, 725 rpm, cosine 0.85. It is powered by a diesel motor "Borets", nomenclature BK-43 (Bezkompressorный, diameter of cylinder 43 cm) manufactured in Sormovskiy Mashino-Stroitel'nyy Zavod imeni Zhdanova; it can also be powered by any steam engine. It is used as a vessel power plant.
- (e) Generator, three phase alternating current; capacity: 190 KW, 450 V, 270 amp, 725 rpm, cosine 0.88. It is normally powered by a diesel motor BK-43, or a steam engine. It is used as vessel power plant.
2. I have no information on generators used for radar warning stations, antiaircraft and fire control, radar, searchlight batteries, directional equipment, and higher headquarters communication equipment.

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